





ENTERED

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/081,408

DATE: 03/11/2002 R5 TIME: 10:21:47

Input Set : A:\Ep.txt

Output Set: N:\CRF3\03112002\J081408.raw

		<110						s,n	, La	rs								
	5	-100				Joak		T. M		OC 107	ים חי	DQM EI	TNI DI	TO TE	T (7 N m :	r O NT		
		<120 <130									JR P	KOTE.	IN P	JKIF.	ICAT.	LON		
C>											2/10	/081	408					
C>												/ 001	, 400					
(/		<150					-					625-	2					
		<151									J T O O .	023	,					
		<150									50/2	72.2	17					
•		<151									.,_	, .						
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		_			_		-			-	-		-			-	acattg	120
•	34	ctct	ccti	ttg (gttga	aatca	ag ct	igtc	cctct	t to	gtgg	gaaa	_					175
	35													L Ası	n Gli	n Lys	s Thr	
	36												1				5	
		atc																223
		Ile	Leu	Val	Leu		Ile	Leu	Ala	Val		Thr	Ile	Phe	Ala		Val	
	40					10					15					20		071
		tgt																271
		Cys	Val	Leu		Val	GLY	Arg	GLY	_	Asp	GLY	GTĀ	Glu		ser	GIN	
	44				25					30				+	35	202	020	319
		ctt																319
		Leu	Pro		Cys	Pro	ser	vaı	ser 45	Pro	ser	Ald	GIII	50	ттр	1 111	nis	
	48	cct	~~~	40	200	G 3 G	ata	+++		~ ~ ~	ot a	200	002		mam	cta	асп	367
		Pro																307
	52	PIO	55	GIII	261	GTII	Leu	60	міа	ASP	Бец	Ser	65	GIU	OLu	Dea	1111	
		gct		atα	Cac	+++	cta		cad	caa	cta	aaa		σσσ	cta	ata	αat.	415
		Ala																
	56	70			*** 9		75		~	3		80		1			85	
		gca	acc	саσ	qcc	caa		tca	gac	aac	tat		ttc	tca	qtq	gag		463
		Ala																
	60					90		=			95					100		



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				ccc													511
	Gln	Leu	Pro	Pro	Lys	Ala	Ala	Ala		Ala	His	Leu	Asp		Gly	Ser	
64	000	003	aat	105 gcc	oaa	a a a	ac. 2	ata	110	a+0	ata	++0	+++	115	aaa		559
				Ala													333
68	110	110	120	mu	9	O L u	1114	125	mia	110	, u _	1 110	130	011	**** 9	O.I.I.	
	ccc	cag	CCC	aac	gtg	agt	gag		gtg	gtg	ggg	cca		cct	cac	ccc	607
				Asn													
72		135					140					145				•	
				cgg													655
	Ser 150	Tyr	Met	Arg	Asp	vaı 155	Thr	Val	GIu	Arg	H1S	GLŸ	GLY	Pro	Leu.	Pro 165	
		cac	cga	cgc	CCC		cta	ttc	caa	αaα		cta	nac	ata	αac		703
			_	Arg			_					-					, 03
80	-1-		5	5	170					175	-1-		1		180		
82	atg	atc	ttc	aac	aga	gag	ctg	ccc	cag	gct	tct	ggg	ctt	ctc	cac	cac	751
83	Met	Ile	Phe	Asn	Arg	Glu	Leu	Pro		Ala	Ser	Gly	Leu		His	His	
84				185					190					195			~ ~ ~
	-			tac													799
88	Cys	Cys	200	Tyr	гаг	HIS	Arg	205	Arg	ASII	ьеи	vaı	210	мес	THE	THE	
	act	CCC		ggt	cta	саа	tca		gac	caa	acc	acc		t.t.t.	aac	ctc	847
				Gly													•
92		215	_	-			220		-	,		225	~		-		
				atc													895
	_	Tyr	Asn	Ile	Ser	_	Ala	Gly	Phe	Phe		His	His	Val	Gly		
	230					235					240					245	042
				gtg Val													943
100		Бец	пеа	Val	250		- БУЗ	AIU	Leu	255		AIU	Arg	115	260		
		aaq	gto	, ttc			ggg	cgc	tac			ago	cto	geo		ctg	991
	_	_						_			_	_	_	-		Leu	
104				265					270					275			
		_				_		_			,		_			gac	1039
		Ala			Glu	. Ala	r GTZ			Asn	va1	. Val			e Pro) Asp	
108		aaa	280		aaa	+ 00	. +	285			+ 00	aat	290			ggt	1087
									_	_						Gly	1007
112		295		. 011	011	001	300		200			305			, , ,	. 011	
				cct	cta	cag	tto	tat	ccc	caa	ggc			: ttc	agt	gtc	1135
115	Pro	Ala	Pro	Pro	Leu	Gln	Phe	e Tyr	Pro	Gln	Gly	Pro	Arg	Phe	e Ser	Val	
	310					315					320					325	
																ctc	1183
$\frac{119}{120}$		GIY	sei	Arg	330		ser	ser	. ren	335		Pue	ser	Pne	340	Leu	
		αca	tta	· ant			aσσ	r atc	+++			cac	· ttc	· caa		gaa	1231
																Glu	
$\frac{124}{124}$				345			2	,	350			5	, _ ====	355		-	
		cta	gtt	: tat	gag	ata	ago	cto	caa	gag	gcc	ttg	geo	ato	: tat	ggt	1279

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127
131 Gly
131 Gly
132 375 380 385 385 3875 3816 385
134 ggc atg ggc ag tac ag tac acc acg ccc ctg acc cgt ggg gtg gtg gtg ccc ccc 1375 135 Gly Met Gly Lys Tyr Thr Thr Pro Leu Thr Arg Gly Val Asp Cys Pro 136 390 138 tac ttg gcc acc tac gtg gac tgg cac ttc ctt ttg gag tcc cag gcc 1423 139 Tyr Leu Ala Thr Tyr Val Asp Trp His Phe Leu Leu Glu Ser Gln Ala 140
135 Gly Met Gly Lys Tyr Thr Thr Pro Leu Thr Arg Gly Val Asp Cys Pro 405 138 tac ttg gcc acc tac gtg gac tgg cac ttc ttg gag tcc cag gcc 1423 139 Tyr Leu Ala Thr Tyr Val Asp Trp His Phe Leu Leu Glu Ser Gln Ala 140
136 390
138 tac ttg gcc acc tac gtg gac tgg cac ttc ctt ttg gag tcc cag gcc 1423 139 Tyr Leu Ala Thr Tyr Val Asp Trp His Phe Leu Leu Cdu Ser Gln Ala 140
139 Tyr Leu Ala Thr Tyr Val Asp Trp His Phe Leu Leu Glu Ser Gln Ala
140
142 ccc aag aca ata cgt gat gcc ttt tgt gtg ttt gaa cag aac cag ggc 1471 143 Pro Lys Thr Ile Arg Asp Ala Phe Cys Val Phe Glu Gln Asn Gln Gly 435 146 ctc ccc ctg cgg cga cac cac tca gat ctc tac tcg cac tac ttt ggg 1519 147 Leu Pro Leu Arg Arg His His Ser Asp Leu Tyr Ser His Tyr Phe Gly 448 148
143
144
144
147 Leu Pro Leu Arg Arg His His Ser Asp Leu Tyr Ser His Tyr Phe Gly 148
147 Leu Pro Leu Arg Arg His His Ser Asp Leu Tyr Ser His Tyr Phe Gly 148
148 440 445 450 450 1567 1569 ggt ctt ggg gaa acg gtg ctg gtc gtc gtc acg tct atg tcc acc ttg ctc acc ttg ctc acc acc 455 1567 15167 151 Gly Leu Ala Glu Thr Val Leu Val Val Arg Ser Met Ser Thr Leu Leu Leu 465 1567 154 acc tat gac tat ggc tat ggg gat acc ggt ttc cac ccc agt ggg gcc ata acc acc acc acc acc acc acc acc a
150 ggt
151 Gly Leu Ala Glu Thr Val Leu Val Val Arg Ser Met Ser Thr Leu Leu 152
152
154 aac tat gac tat gtg tgg gat acg gtc ttc cac ccc agt ggg gcc ata 155 Asn Tyr Asp Tyr Val Trp Asp Thr Val Phe His Pro Ser Gly Ala Ile 156 470
155 Asn Tyr Asp Tyr Val Trp Asp Thr Val Phe His Pro Ser Gly Ala Ile 156 470
156 470
158 gaa ata cga ttc tat gcc acg ggc tac atc agc tcg gca ttc ctc ttt 159 Glu Ile Arg Phe Tyr Ala Thr Gly Tyr Ile Ser Ser Ala Phe Leu Phe 500 162 ggt gct act ggg aag tac ggg aac caa gtg tca gag cac acc ctg ggc 1711 163 Gly Ala Thr Gly Lys Tyr Gly Asn Gln Val Ser Glu His Thr Leu Gly 515 164 505 505 506 1711 171 171 171 171 171 171 171 171 1
159 Glu Ile Arg Phe Tyr Ala Thr Gly Tyr Ile Ser Ser Ala Phe Leu Phe 160
160 490 495 500 162 ggt gct act ggg aag tac ggg aac caa gtg tca gag cac acc ctg ggc 1711 163 Gly Ala Thr Gly Lys Tyr Gly Asn Gln Val Ser Glu His Thr Leu Gly 164 505 510 515 166 acg gtc cac acc cac acc cac agc gcc cac ttc aag gtg gat ctg gat gta gca 1759 167 Thr Val His Thr His Ser Ala His Phe Lys Val Asp Leu Asp Val Ala 168 520 525 530 170 gga ctg gag aac tgg gg gtc tgg gcc gag gat atg gtc ttt gtc ccc atg 1780 171 Gly Leu Glu Asn Trp Val Trp Ala Glu Asp Met Val Phe Val Pro Met 545 1807 174 gct gtg ccc tgg agc cct gag cac cag ctg cag agg ctg cag agg ctg cag gtg acc 1855 1855 175 Ala Val Pro Trp Ser Pro Glu His Gln Leu Gln Arg Leu Gln Val Thr 171 176 550 565
162 ggt gct act ggg aag tac ggg aac caa gtg tca gag cac acc ctg ggc 1711 163 Gly Ala Thr Gly Lys Tyr Gly Asn Gln Val Ser Glu His Thr Leu Gly 164 505 5 505 5 510 5 515 166 acg gtc cac acc cac agc gcc cac ttc aag gtg gat ctg gat gta gca 1759 167 Thr Val His Thr His Ser Ala His Phe Lys Val Asp Leu Asp Val Ala 168 520 525 525 530 170 gga ctg gag aac tgg gtc tgg gcc gag gat atg gtc ttt gtc ccc atg 170 Gly Leu Glu Asn Trp Val Trp Ala Glu Asp Met Val Phe Val Pro Met 172 535 5 540 545 174 gct gtg ccc tgg agc cct gag cac cag ctg cag agg ctg cag gtg acc 1855 175 Ala Val Pro Trp Ser Pro Glu His Gln Leu Gln Arg Leu Gln Val Thr 176 550 565
163 Gly Ala Thr Gly Lys Tyr Gly Asn Gln Val Ser Glu His Thr Leu Gly 164 505 510 510 515 166 acg gtc cac acc cac agc gcc cac ttc aag gtg gat ctg gat gta gca 1759 167 Thr Val His Thr His Ser Ala His Phe Lys Val Asp Leu Asp Val Ala 168 520 525 530 170 gga ctg gag aac tgg gtc tgg gcc gag gat atg gtc ttt gtc ccc atg 1807 171 Gly Leu Glu Asn Trp Val Trp Ala Glu Asp Met Val Phe Val Pro Met 172 535 540 545 174 gct gtg ccc tgg agc cct gag cac cag ctg cag agg ctg cag gtg acc 1855 175 Ala Val Pro Trp Ser Pro Glu His Gln Leu Gln Arg Leu Gln Val Thr 176 550 565
164 505 510 515 166 acg gtc cac acc acc acc acc agc gcc cac ttc aag gtg gat ctg gat gta gca 1759 167 Thr Val His Thr His Ser Ala His Phe Lys Val Asp Leu Asp Val Ala 168 520 525 170 gga ctg gag aac tgg gtc tgg gcc gag gat atg gtc ttt gtc ccc atg 1807 171 Gly Leu Glu Asn Trp Val Trp Ala Glu Asp Met Val Phe Val Pro Met 545 172 535 540 545 174 gct gtg ccc tgg agc cct tgg acc cac cag ctg cag agg ctg cag gtg acc 1855 175 Ala Val Pro Trp Ser Pro Glu His Gln Leu Gln Arg Leu Gln Val Thr 565
166 acg gtc cac acc acc acc acc agc gcc cac ttc aag gtg gat ctg gat gta gca 1759 167 Thr Val His Thr His Ser Ala His Phe Lys Val Asp Leu Asp Val Ala 520 525 530 170 gga ctg gag aac tgg gtc tgg gcc gag gat atg gtc ttt gtc ccc atg 1807 171 Gly Leu Glu Asn Trp Val Trp Ala Glu Asp Met Val Phe Val Pro Met 545 174 gct gtg ccc tgg agc cct gag cac cag ctg cag agg ctg cag gtg acc 1855 175 Ala Val Pro Trp Ser Pro Glu His Gln Leu Gln Arg Leu Gln Val Thr 176 176 550 565
167 Thr Val His Thr His Ser Ala His Phe Lys Val Asp Leu Asp Val Ala 168
168 520 525 530 170 gga ctg gag aac tgg gtc tgg gcc gag gat atg gtc ttt gtc ccc atg 1807 171 Gly Leu Glu Asn Trp Val Trp Ala Glu Asp Met Val Phe Val Pro Met 545 172 535 540 545 174 gct gtg ccc tgg agc cct gag cac cag ctg cag agg ctg cag gtg acc 1855 175 Ala Val Pro Trp Ser Pro Glu His Gln Leu Gln Arg Leu Gln Val Thr 176 550 565
168 520 525 530 170 gga ctg gag aac tgg gtc tgg gcc gag gat atg gtc ttt gtc ccc atg 1807 171 Gly Leu Glu Asn Trp Val Trp Ala Glu Asp Met Val Phe Val Pro Met 545 172 535 540 545 174 gct gtg ccc tgg agc cct gag cac cag ctg cag agg ctg cag gtg acc 1855 175 Ala Val Pro Trp Ser Pro Glu His Gln Leu Gln Arg Leu Gln Val Thr 176 550 565
171 Gly Leu Glu Asn Trp Val Trp Ala Glu Asp Met Val Phe Val Pro Met 172 535 540 540 545 174 gct gtg ccc tgg agc cct gag cac cag ctg cag agg ctg cag gtg acc 1855 175 Ala Val Pro Trp Ser Pro Glu His Gln Leu Gln Arg Leu Gln Val Thr 176 550 565
171 Gly Leu Glu Asn Trp Val Trp Ala Glu Asp Met Val Phe Val Pro Met 172 535 540 540 545 174 gct gtg ccc tgg agc cct gag cac cag ctg cag agg ctg cag gtg acc 1855 175 Ala Val Pro Trp Ser Pro Glu His Gln Leu Gln Arg Leu Gln Val Thr 176 550 565
172 535 540 545 174 gct gtg ccc tgg agc cct gag cac cag ctg cag agg ctg cag gtg acc 1855 175 Ala Val Pro Trp Ser Pro Glu His Gln Leu Gln Arg Leu Gln Val Thr 176 550 565
174 gct gtg ccc tgg agc cct gag cac cag ctg cag agg ctg cag gtg acc 175 Ala Val Pro Trp Ser Pro Glu His Gln Leu Gln Arg Leu Gln Val Thr 176 550 565
175 Ala Val Pro Trp Ser Pro Glu His Gln Leu Gln Arg Leu Gln Val Thr 176 550 565
176 550 555 560 565
178 cgg aag ctg ctg gag atg gag gag cag gcc gcc ttc ctc gtg gga agc 1903
179 Arg Lys Leu Leu Glu Met Glu Glu Gln Ala Ala Phe Leu Val Gly Ser
180 570 575 580
182 gcc acc cct cgc tac ctg tac ctg gcc agc aac cac agc aac aag tgg 1951
183 Ala Thr Pro Arg Tyr Leu Tyr Leu Ala Ser Asn His Ser Asn Lys Trp
184 585 590 595
186 ggt cac ccc cgg ggc tac cgc atc cag atg ctc agc ttt gct gga gag 1999
187 Gly His Pro Arg Gly Tyr Arg Ile Gln Met Leu Ser Phe Ala Gly Glu
188 600 605 610
190 ccg ctg ccc caa aac agc tcc atg gcg aga ggc ttc agc tgg gag agg 2047
191 Pro Leu Pro Gln Asn Ser Ser Met Ala Arg Gly Phe Ser Trp Glu Arg

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200		650	++			2191
					gat ttg gtg gcc tgg Asp Leu Val Ala Trp	2191
	-		Giu Thr lie	670	675	
204		665	ata ast sta			2239
					gag gac att cct aac	2239
		ita Gry Phe . 80	685	PIO HIS AIA	Glu Asp Ile Pro Asn 690	
208	-			~~~ ++~ ++~		2287
					ctc cga ccc tat aac	2201
		nr var Gry	ASH GLY VAL	GIY FILE FILE	Leu Arg Pro Tyr Asn 705	
212				taa tat aaa		2335
					gac tcc atc tac ttc	2333
	710 710 A		715 Ser Phe	720	Asp Ser Ile Tyr Phe 725	
			. — -		aac ccc cta gct tgc	2383
					Asn Pro Leu Ala Cys	2303
220		730 Time	Ala Gly Ala	735	740	
			acc tat acc		cct gcc ttc tcc cac	2431
	-			_	Pro Ala Phe Ser His	2431
224		745	Ala Cys Ala	750	755	
			aac taggcggt		gg catgtggcca	2479
		he Ser His		cc cyygucyy;	gg cacgeggood	21,7
228		60	11511			
			a tgagggatgg	ggaggaggtg	ggcactgggc cggcagcctg	2539
					ccctccctcg catccgcctc	2599
	-				ggacactgaa ccttgttgat	2659
					gcccagcctg gagccgtggc	2719
					tttcccgaat ctttttaggc	2779
			_		cccagagtag ggttgccagt	2839
					cacatteect etcatecagg	2899
					ctcctcctcc tgttcctgcc	2959
		_			tatecetatg teccageece	3019
		_	_		tectetecag ecetatggaa	3079
		-			ctgtgtgtcg ttcccttgtg	3139
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					gctctctata gaggaggatg	3259
					atttgggggt gcaatgataa	3319
					acagectgtt tgggaggetg	3379
					agcccctaca actccagcca	3439
					aatgagetgg geeetgggtg	3499
					tggggcaggg cctggcctgg	3559
248	tccaggctt	g ggctccatte	c ccatcactgc	tgtccctcct	gaggtctgga ttggggatgg	3619
					ttttctctaa aggactggtt	3679
250	aaatcaatt	c tgatacagc	c ttacaataca	atagtatgca	gctaaaaaat aattgtatgt	3739

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253	atg	ccta	ttc a	agaat	taaa	tgʻgʻ	gtaad	cact	gati	tact	tttg	gga	gggg	aac	cagt	aggttg	3919
254	agga	acag	gag a	aggg	aagg	gt c	ttaad	cact	t aca	accc	tttt	gta	catt	ttg a	aatt	ttgaac	3979
255	cate	gtga	ctg	tatta	accta	at to	caaaa	ataaa	a caa	ataa	atgg	gcc	caaa	aaa a	aaaa	aaaaaa	4039
256	a																4040
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259	<21	1> L	ENGT	H: 7	63												
260	<21	2> T	YPE:	PRT													
261	<21	3> 01	RGAN:	ISM:	Homo	o saj	piens	S									
263	<40	0> S	EQUE	NCE:	2												
264	Met	Asn	Gln	Lys	Thr	Ile	Leu	Val	Leu	Leu	Ile	Leu	Ala	Val	Ile	Thr	
265	1				5					10					15		
266	Ile	Phe	Ala	Leu	Val	Cys	Val	Leu	Leu	Val	Gly	Arg	Gly	Gly	Asp	Gly	
267				20					25					30			
268	Gly	Glu	Pro	Ser	Gln	Leu	Pro	His	Cys	Pro	Ser	Val	Ser	Pro	Ser	Ala	
269			35					40					45				
270	Gln	Pro	Trp	Thr	His	Pro	Gly	Gln	Ser	Gln	Leu	Phe	Ala	Asp	Leu	Ser	
271		50					55					60					
272	Arg	Glu	Glu	Leu	Thr	Ala	Val	Met	Arg	Phe	Leu	Thr	Gln	Arg	Leu	Gly	
273	65					70					75					80	
	Pro	Gly	Leu	Val	Asp	Ala	Ala	Gln	Ala	Arg	Pro	Ser	Asp	Asn	Cys	Val	
275					85					90					95		
	Phe	Ser	Val		Leu	Gln	Leu	Pro		Lys	Ala	Ala	Ala	Leu	Ala	His	
277				100					105					110			
	Leu	Asp	Arg	Gly	Ser	Pro	Pro		Ala	Arg	Glu	Ala		Ala	Ile	Val	
279	_	_	115					120		_		_	125	_	_		
	Phe		Gly	Arg	Gln	Pro		Pro	Asn	Val	Ser		Leu	Val	Val	Gly	
281		130					135				_	140			_		
		Leu	Pro	His	Pro		Tyr	Met	Arg	Asp		Thr	Val	GIu	Arg		
	145	a 1	_	_	_	150		_	_	_	155	_	51	a1 .	~ 1	160	
	GTĀ	GTA	Pro	Leu		Tyr	HIS	Arg	Arg		vaı	Leu	Pne	Gin	Glu	Tyr	
285	r		-1.		165		- 1		•	170	a 1	.	D	a1	175	0	
	Leu	Asp	тте	_	GIN	мет	тте	Pne		Arg	GIU	ьeu	Pro		Ala	ser	
287	a 1	T	.	180		G	G	D1	185	T	***	3	a 1	190	3	T	
	СТА	Leu		HIS	HlS	Cys	Cys		Tyr	ьys	HIS	Arg	_	Arg	Asn	ьeu	
289	17. 1	m \	195	m1	m l		D	200	a1	T	01 =	C	205	3 a m	7	71.	
	vai	210	мет	THE	Thr	Ala		Arg	СТУ	ьeu	GIN		GIY	ASP	Arg	Ald	
291	mh m		Dha	C1	T 0.11	П	215	3 a n	т1.	Com	C1	220	C1	Dha	Dho	T ou	
	225	ттр	Pile	СТА	ьeu	230	туг	ASII	тте	ser	235	Ата	СТА	Pile	Phe	240	
		ni a	v-1	C1	T 011		Tou	Lou	17.1	A a n		T ***	۸ I ¬	Tou	N an		
294	HIS	HIS	vaı	СТУ	245	GIU	ьеи	ьeu	Val	250	HIS	гуѕ	Ald	Leu	Asp 255	PIO	
	λl -	· λ ~~	m-rn	mb ro		Cln	T 110	Wa 1	Dho		Cln	C1**	λκα	Пттъ		Λαn	
297	Ald	Arg	ттр	260	тте	GIII	гуѕ	Val	265	TAT	GIII	СТА	AIG	270	Tyr	ASP	
	Cor	LOU	717		T 011	C1	7 1 2	Cln		C1	λ1-	C1.	T 011		Asn	Wa 1	
299	261	пеп	275	GTII	ьеи	GIU	тта	280	L IIG	GIU	ALG	GTA	285	AGT	non	* a T	
	Val	T.e.u		Pro	Δen	Δen	Glv		Glv	Glv	Ser	Trn		تنضًا.	Lys	Ser	
301	7 4 1	290	116	110	'12b	11011	295	T 11T	O T Y	O T Y	JCI	300	DCI	Leu	פעם	501	
J J I		200					2,,,					550					



Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.



VERIFICATION SUMMARY

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Input Set : A:\Ep.txt
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L:12 M:270 C: Current Application Number differs, Replaced Current Application No L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date